

Japan-EU cooperation in *education,* *science/technology* & *business*



*Richard Coudenhove-
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1894~1972

October 21, 2014

Keiji IDE

Ambassador of Japan to Croatia

Japan – Croatia

Academic Cooperation

Joint Research
-Landslide, Flood
(Dr. Nevenka Ožanić,
Deputy Rector)
-Demining
-Materials Science



Student exchange

◆ 47 Croats studied in Japan, using scholarship of Japanese Education Ministry
(including Dr. Zlatan Car (Deputy Rector), Dr. Elitza markova-Car of Rijeka University)

Cooperation Agreements of Croatia-Japanese Universities

Zagreb Univ. – Tokyo U., Hokkaido U., Chuo U., Musashino U.

Zagreb Economy Management U. –Nagoya U., Ritsumeikan U., Meiji Gakuin U.

Rijeka U. – Hyogo Medical U.

Split U. - Kansui Gakuin U., Niigata U.

Japan-EU Joint Press Statement (7 May 2014)



- ◆ *Paragraph 1:* Our strong, longstanding and dynamic relations is founded on the **common values of democracy, the rule of law, human rights, and shared principles** such as open market and a rule-based international system.
- ◆ *Paragraph 2:* We reaffirm our commitment to concluding a **Strategic Partnership Agreement**.
- ◆ *Paragraph 3:* We reaffirm the importance of ... early conclusion of a highly comprehensive and ambitious **Free Trade Agreement (FTA) / Economic Partnership Agreement (EPA)**
- ◆ *Paragraph 7(6) :* The EU and Japan will strengthen our partnership on the **ITER Project** and the **Broader Approach Activities** for their complete success towards the realization of fusion energy.

Japan-EU Joint Press Statement (7 May 2014)



- ◆ *Paragraph 7(8) : People-to-people exchanges* and cooperation in higher education are essential tools to engage with each other's culture and deepen mutual understanding.... The EU-funded **Erasmus Plus program** can deepen academic cooperation between the EU and Japan already developed thru **double degree programs** and **student, researcher and staff exchanges**, providing new opportunity to increase mobility. **Marie Sklodowska-Curie actions** are supporting the exchange of research staff from institutions in the EU and Japan. **The EU Institutes in Japan** further mutual understanding, engage with a wide array of audiences and reinforce EU-Japan academic cooperation. In addition, we have decided to mutually support our respective events to **promote student exchanges** between the EU and Japan, such as **the European Higher Education Fair** in Japan in May and **the Study in Japan Fairs**, including those being held in London and Paris in November 2014.

EU Institutes in Japan (EUIJ)

4 EUIJ actively
working.



Opening ceremony of EUIJ Tokyo (2004)

- ◆ EUIJ Tokyo Consortium: 2004
(Hitotsubashi Univ., International Christian U., Tokyo U. of Int'l Studies, Tsuda College)
- ◆ EUIJ Kansai: 2005 (Kobe U., Kwansei Gakuin U., Osaka U.)
- ◆ EUIJ Waseda: 2009 (Waseda U.)
- ◆ EUIJ Kyushu: 2011 (Kyushu U., Seinan Gakuin U., Fukuoka College)

Scholarship
Program of
Japanese
Education
Ministry



Exchange/Cooperation Agreements by Universities (2011)

Japan-EU 3,958

Japan-UK 880

Japan-France 749

Japan-Germany 710

Japan-Italy 245

32 Offices of Japanese Universities in Europe

UK 9

France 8

Germany 5

Netherlands 3

Italy, Belgium 2

Austria, Denmark,

Finland 1

Japan-EU Students Exchange

(2013)

(2011)

- ◆ From World to Japan: 135,519
- ◆ From Europe to Japan: 4,753
- ◆ **From EU to Japan: 3,583**
 - ◆ from France: 793
 - ◆ from Germany: 599
 - ◆ from UK: 452
 - ◆ from Sweden: 254

- ◆ From Japan to World: 57,501
- ◆ From Japan to Europe: 9,653
- ◆ **From Japan to EU: 9,215**
 - ◆ to UK: 3,765
 - ◆ to Germany: 1,867
 - ◆ to France: 1,685
 - ◆ to Austria: 348

New Students Exchange Program supported by EU & Japan

- ◆ **Double Degree Project (2013-)**
 - ◆ 20 students from each side for 4 years
 - ◆ 10 months or more
- ◆ **Mobility Project (2014-)**
 - ◆ 20 students for 3 years
 - ◆ 1 – 5 months



EU

2,2 million Euro for exchange
with Japan, Australia
and Republic of Korea



**Japanese
Government**

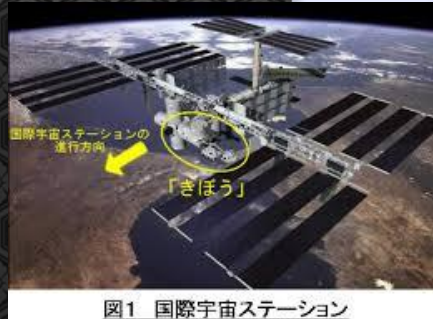
Annual 130,000 Euro

Japan-EU Research Cooperation

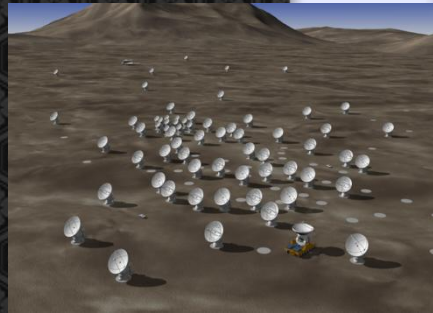
~ Space, Ocean ~

◆ ISS

(International Space Station)
(1988-)



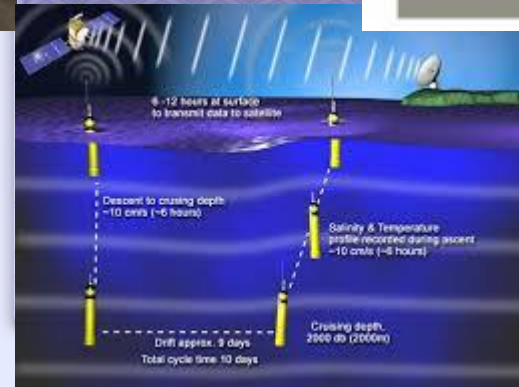
◆ ALMA Project (2004-)



◆ Japan-EU Dialogue on Space Policy (Oct 2014)

◆ IODP (Integrated Ocean Drilling Program)

◆ ARGO Project



Japan-EU Research Cooperation ~ Global Climate Change ~

Japan-EU Workshop on Climate Change (since 1999, 6 times)



GEOSS (Global Earth Observation System of Systems)



**Belmont Forum
(International Group of
Funding Agencies for Global
Change Research)**

- **Freshwater security**
- **Coastal Vulnerability**
- **E-Infrastructure**
- **Food Security**
- **Arctic observation**
- **Biodiversity and Ecosystem**

Japan-EU Researchers Exchange (2012)

**From EU to Japan: 7,939
(more than 1 month: 2,797)**

- ◆ from UK: 1,822
- ◆ from Germany: 1,662
- ◆ from France: 1,611
- ◆ from Italy: 531

**From Japan to EU: 46,739
(more than 1 month: 1,929)**

- ◆ to Germany: 9,069
- ◆ to France: 7,862
- ◆ to UK: 6,831
- ◆ to Italy: 4,754

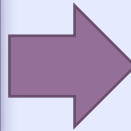
Related Japanese Organizations

Foreign Ministry
Ministry of Education, Science & Sports
JST (Japan Science & Technology Agency)
JSPS (Japan Society for the Promotion of Science)
Japan Foundation

Japan-EU Cooperation in Science & Technology

Japan-EU Science & Technology Agreement (March 2011 effective)

- ◆ Defined the framework to promote cooperation.
- ◆ Established Joint Committee to review achievements.



Joint Committee

June 2011: 1st meeting
June 2013: 2nd meeting

MAIN ACHIEVEMENTS

- ◆ **Joint Projects**
 - ◆ Solar power generation
 - ◆ Aviation
 - ◆ Superconductivity
 - ◆ Substitutes for rare elements
- ◆ **National Contact Point in Japan for Horizon 2020** was designated (Nov. 2013)
- ◆ **Large scale project**
 - ◆ **ITER** (International Thermonuclear Experimental Reactor)



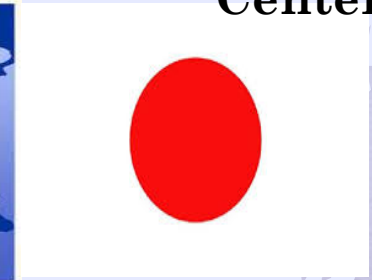
EU-Japan Centre for Industrial Cooperation (in Tokyo)

(National Contact Point in Japan)

HISTORY

- ◆ Established in 1987.
- ◆ Designated as *National Contact Point in Japan for Horizon 2020* (2013 November).

- ◆ Vulcanus Program (train students)
--- 3 students from Zagreb and Varaždin participated in 2014
- ◆ Minerva Fellowship Program



Jointly
support
the
Center

Japan-EU Business Roundtable (since 1999) : 50 CEOs of Japan & EU

Nuclear Power Industry

~International Cooperation~

- ◆ **Mitsubishi** – Areva (France)
- ◆ **Toshiba** – Westinghouse (WH) (US)
- ◆ **Hitachi** – General Electrics (GE) (US) – Horizon (UK)
- ◆ **RosAtom** (Russia)



HITACHI

TOSHIBA



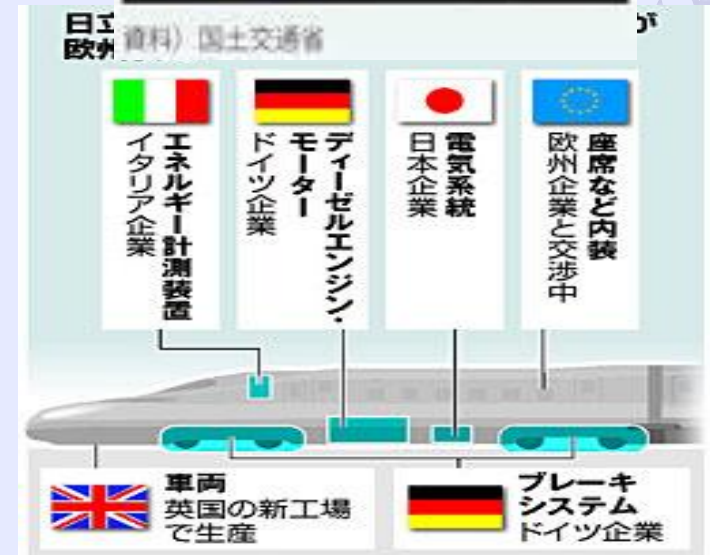
**Future possible construction
of Nuclear power stations:**

Finland, France, UK, Romania, Lithuania, Bulgaria,
Slovakia, (Slovenia?)

Industrial cooperation

~Express Railway in UK~

- ◆ Hitachi builds Express railway (IEP; Intercity Express Program) in the UK. (over 200 km/h)
- ◆ More than 4 billion Euro
- ◆ 866 vehicles (coaches) produced in the UK.
- ◆ 2017 : start of operation



Future Possible Cooperation

~ Superconducting Magnetic Levitation Railway~



- ◆ 500km/hour
- ◆ Tokyo-Nagoya
286km : 40 minutes
- **Aichi : Leading cluster for advanced technology*
- ◆ Start to operate :
2027
- ◆ Cost : 40 billion Euro

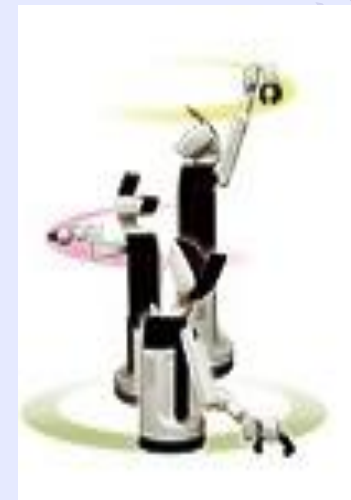


Japan-EU Workshop on Research and Innovation in **Robotics** (June 2014)

industrial sector



Service, entertainment,



Industrial Cooperation

~ **Automobile** ~

Renault –
Nissan



Peugeot-
Citroen-
Mitsubishi



Opel - **Suzuki**



Peugeot-Citroen-**Toyota**



Future Possible Cooperation

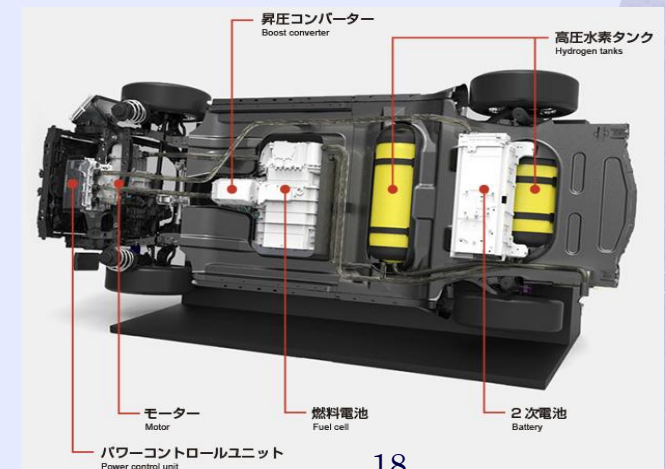
~ Hydrogen automobile ~

no gas, no gasoline
no CO2 emission



HONDA leases since 2002.

TOYOTA will sell to the public
since 2015.



Industrial Cooperation

Japanese companies' re-entry to airplane production business

Boeing-787 “Dreamliner”
Japanese components: 35%
(carbon fiber, etc)



Mitsubishi Regional Jet

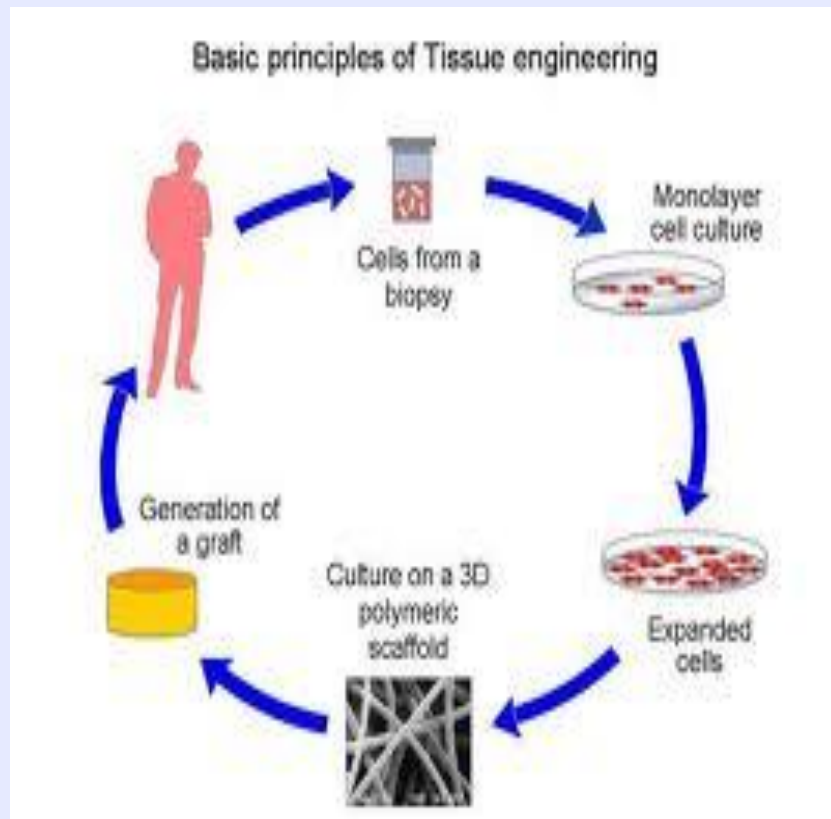


Honda
Jet



Future Possible Cooperation

~ Tissue engineering and Regenerative Medicine ~



- ◆ **Dr. Yamanaka** developed IPS Cell (induced pluripotent stem cell).
- ◆ Japanese Government financially strongly support.



C o n c l u s i o n

Japan-Europe Cooperation

- ◆ Joint efforts ➡ **common, global challenges**
- ◆ ideas, conceptions, approaches *for research & industrial application*
➡ **supplement each other**
- ◆ In Japan, rich accumulation of knowledge and information, freedom of scholarly work in Asia.
- ◆ Geopolitical, **strategic** points
 - 1st Japan-NATO counter-piracy joint drill
(September 2014, Gulf of Aden)
- ◆ **Integration** in Asia (APEC, East Asia Summit)



Thank you!

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